

Abstract

A data optimization method transforms an input Data File containing an Arbitrary Order Signal Sequence into a Streamable Signal Sequence having the same or compatible format as the original input Data File. The Streamable Signal Sequence, which represents the same information as contained in the original Arbitrary Order Signal Sequence, can be sequentially processed using less memory. In one embodiment, a Data File containing a PDF (portable document format) file, i.e., an Arbitrary Order Signal Sequence document is transformed from an arbitrary order organization into a Streamable Signal Sequence organization, more suitable for printing. Reordering an Arbitrary Order Signal Sequence into a Streamable Signal Sequence reduces the memory required to print a document as compared to the same document represented by an Arbitrary Order Signal Sequence.